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29	8870	(bandwidth or load) near5 balancing	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 00:50
30	70188	switch\$2 same register\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 00:51
31	31	((bandwidth or load) near5 balancing) same (switch\$2 same register\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 00:52
32	1	usb and ((bandwidth or load) near5 balancing) same (switch\$2 same register\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 00:58
33	1	bus same (((bandwidth or load) near5 balancing) same (switch\$2 same register\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 00:53
34	5	usb same ((bandwidth or load) near5 balancing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 01:05
35	0	709/105.cc1s. and (switch\$2 same register\$1) and usb	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/01 01:05


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... 10:53 To: [EMAIL PROTECTED] Subject: RE: [leaf-user] Load balancing ... But this would not **load** without pci-scan.o ... be quite so difficult to attach **USB** ADSL modems ...

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... I wasn't expecting it to be quite so difficult to attach **USB** ADSL modems, I guess I'm just spoilt with my cable modem ... [leaf-user] Load balancing., James Neave: ...

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Marjorie Richardson, Jason Schumaker, David Penn

**Linux Journal** June 2000

A quick look at some of the people who helped make Linux possible.

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Jun Wang, Mohan S. Kankanhalli

**Proceedings of the eleventh ACM international conference on Multimedia** November 2003We present a novel *experience based sampling* or *experiential sampling* technique which has the ability to focus on the analysis's task by making use of the contextual information from the environment. In this technique, *sensor samples* are used to gather information about the current environment and *attention samples* are used to represent the current state of attention. The task-attended samples are inferred from experience and maintained by a sampling based dynamical system. ...**3 iLamps: geometrically aware and self-configuring projectors**

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Ramesh Raskar, Jeroen van Baar, Paul Beardsley, Thomas Willwacher, Srinivas Rao, Clifton Forlines

**ACM Transactions on Graphics (TOG)** July 2003

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Projectors are currently undergoing a transformation as they evolve from static output devices to portable, environment-aware, communicating systems. An enhanced projector can determine and respond to the geometry of the display surface, and can be used in an ad-hoc cluster to create a self-configuring display. Information display is such a prevailing part of everyday life that new and more flexible ways to present data are likely to have significant impact. This paper examines geometrical issue ...

4 Novel approaches: High-speed I/O: the operating system as a signalling mechanism 77%  
 Matthew Burnside , Angelos D. Keromytis  
**Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications** August 2003  
The design of modern operating systems is based around the concept of memory as a cache for data that flows between applications, storage, and I/O devices. With the increasing disparity between I/O bandwidth and CPU performance, this architecture exposes the processor and memory subsystems as the bottlenecks to system performance. Furthermore, this design does not easily lend itself to exploitation of new capabilities in peripheral devices, such as programmable network cards or special-purpose h ...

5 Cryptography and competition policy: issues with 'trusted computing' 77%  
 Ross Anderson  
**Proceedings of the twenty-second annual symposium on Principles of distributed computing** July 2003  
The most significant strategic development in information technology over the past year has been 'trusted computing'. This is popularly associated with Microsoft's 'Palladium' project, recently renamed 'NGSCB'. In this paper, I give an outline of the technical aspects of 'trusted computing' and sketch some of the public policy consequences.

6 AMD64 opteron: first look 77%  
 Michael Baxter  
**Linux Journal** July 2003  
Volume 2003 Issue 111  
Discover the new architecture that's backward-compatible with the x86 and has IBM, Cadence and others already offering products.

7 Middleware for context sensitive mobile applications 77%  
 K. A. Hawick , H. A. James  
**Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21** January 2003  
Contextual information such as spatial location can significantly enhance the utility of mobile applications. We introduce the concept of active preferences that represent a combination of user preference information and choices combined with spatial or temporal information. Active preferences set the policy on how a mobile application should customise its behaviour not just for a particular user but as that user moves to different locations and interacts with other mobile users or with fixed lo ...

8 An integrated analytical system for global range planning 77%  
 T. E. Williamson  
**Proceedings of the 1967 22nd national conference** January 1967  
The mental image formed upon the first attempt to focus on a problem of the scope involved in systematizing the planning and scheduling functions of a space vehicle tracking range is truly overwhelming (Figure 1). Further investigation, however, while not diminishing the elephantine proportions of the problem, reveals considerable detail of importance. First, there was already at hand at the Air Force Eastern Test Range specific ADP capabilities that could be used almost directly ...

**9 The performance implications of thread management alternatives for shared-memory**

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**9.1 multiprocessors**

T. E. Anderson , D. D. Lazowska , H. M. Levy

**ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1989 ACM SIGMETRICS international conference on Measurement and modeling of computer systems** April 1989

Volume 17 Issue 1

Threads (&ldquo;lightweight&rdquo; processes) have become a common element of new languages and operating systems. This paper examines the performance implications of several data structure and algorithm alternatives for thread management in shared-memory multiprocessors. Both experimental measurements and analytical model projections are presented. For applications with fine-grained parallelism, small differences in thread management are shown to have significant performance imp ...

**10 The A to Z of SoCs**

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**10.1 Reinaldo A. Bergamaschi , John Cohn****Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**

November 2002

The exploding complexity of new chips and the ever decreasing time-to-market window are forcing fundamental changes in the way systems are designed. The advent of Systems-on-Chip (SoC) based on pre-designed intellectual-property (IP) cores has become an absolute necessity for embedded systems companies to remain competitive. Designing an SoC, however, is extremely complex, as it encompasses a range of difficult problems in hardware and software design. This paper explains a wide range of SoC iss ...

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**11.1 Mike Sharples , Dan Corlett , Oliver Westmancott****Personal and Ubiquitous Computing** January 2002

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The convergence of mobile communications and handheld computers offers the opportunity to develop technology that will assist individuals and groups to learn anytime, anywhere. We describe the theory-informed design, implementation and evaluation of a handheld learning device. It is intended to support children to capture everyday events such as images, notes and sounds, to relate them to web-based learning resources, to organise these into a visual knowledge map, and to share them with other le ...

**12 Accessing Context in Wearable Computers**

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**12.1 Juha Lehtikoinen , Riku Suomela****Personal and Ubiquitous Computing** January 2002

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We present an easy interaction technique for accessing location-based contextual data shown on a head-worn wearable computer display. Our technique, called Context Compass, is based on a regular compass metaphor. Each object belonging to the user&rsquo;s current context is visualised on a linear compass shown on the screen. The object directly in front of the user is shown in the middle of the compass and can be activated. Whenever the user turns his or her head, the objects on the screen move a ...

**13 Processor-based system: Combined functional partitioning and communication speed selection 77%****4 for networked voltage-scalable processors**

Jinfeng Liu , Pai H. Chou , Nader Bagherzadeh

**Proceedings of the 15th international symposium on System Synthesis October 2002**

This paper presents a new technique for global energy optimization through coordinated functional partitioning and speed selection for embedded processors interconnected by a high-speed serial bus. Many such serial interfaces are capable of operating at multiple speeds and can open up a new dimension of trade-offs to complement today's CPU-centric voltage scaling techniques for processors. We propose a multi-dimensional dynamic programming formulation for energy-optimal functional partitioning w ...

**14 New products 77%****4 CORPORATE Linux Journal Staff****Linux Journal June 2002**

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**15 Collaboration with Lean Media: how open-source software succeeds 77%****4 Yutaka Yamauchi , Makoto Yokozawa , Takeshi Shinohara , Toru Ishida****Proceedings of the 2000 ACM conference on Computer supported cooperative work**

December 2000

Open-source software, usually created by volunteer programmers dispersed worldwide, now competes with that developed by software firms. This achievement is particularly impressive as open-source programmers rarely meet. They rely heavily on electronic media, which preclude the benefits of face-to-face contact that programmers enjoy within firms. In this paper, we describe findings that address this paradox based on observation, interviews and quantitative analyses of two open-source project ...

**16 High-capacity Internet middleware: Internet caching system architectural overview 77%****4 Gary Tomlinson , Drew Major , Ron Lee****ACM SIGMETRICS Performance Evaluation Review March 2000**

Volume 27 Issue 4

Previous studies measuring the performance of general-purpose operating systems running large-scale Internet server applications, such as proxy caches, have identified design deficiencies that contribute to lower than expected performance and scalability. This paper introduces a high-capacity proxy cache service built upon a specialized operating system designed to efficiently support large-scale Internet middleware. It suggests that specialized operating systems can better meet the needs of the ...

**17 System-level power optimization: techniques and tools 77%****4 Luca Benini , Giovanni de Micheli****ACM Transactions on Design Automation of Electronic Systems (TODAES) April 2000**

Volume 5 Issue 2

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

**18 Quantifying the energy consumption of a pocket computer and a Java virtual machine**

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**4** Keith I. Farkas , Jason Flinn , Godmar Back , Dirk Grunwald , Jennifer M. Anderson**ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems** June 2000

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In this paper, we examine the energy consumption of a state-of-the-art pocket computer. Using a data acquisition system, we measure the energy consumption of the Itsy Pocket Computer, developed by Compaq Computer Corporation's Palo Alto Research Labs. We begin by showing that the energy usage characteristics of the Itsy differ markedly from that of a notebook computer. Then, since we expect that flexible software environments will become increasingly prevalent on pocket computers, we consid ...

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**4** at the University of Washington

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**4** Danai Patiyoot , S. J. Shepherd**ACM SIGOPS Operating Systems Review** April 1999

Volume 33 Issue 2

This paper deals with security techniques for wireless Networks. The work presented is based on a review of literature regarding current and future wireless security networks systems. The aspects discussed in this paper included the choices of cryptographic algorithms such as protocols for key management and authentication. Various conclusions are drawn from existing security networks and proposed in new wireless ATM network security. Also a proposal for future research into security techniques ...

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### Windows 2000 Professional: Hardware Support

... the **root** tier, or the **root hub**, the host ... This requires precision in **load balancing**, synchronization, and ... Because Windows 2000 Professional supports **USB** and the ...

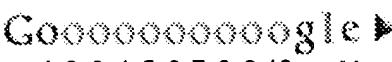
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### Linux 2.4 Kernel TODO List

... de Vries); Finish sorting out VM **balancing** (Rik Van ... fixes; Tlan and Epic100 crash under **load**; Fix hpfs\_unlink ... **USB**: add **bandwidth** allocation support to **usb-uhci** ...  
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### Jukka Heinonen: Interesting Projects

... firewalling, port forwarding and **load balancing** would be ... Machine would automatically identify **USB** devices and ... them kernel images and **root** disks...), would work ...  
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